

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Foster D. Hinshaw and Aaron C. Beals  
Application No.: 10/775,766 Group Art Unit: 2175  
Filed: February 10, 2004 Examiner: Not assigned  
Confirmation No.: 8725  
Title: MATERIALIZED VIEW SYSTEM AND METHOD

CERTIFICATE OF MAILING OR TRANSMISSION	
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<u>Margaret A. Norcott</u>	
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INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
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Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.129(a), or  
(First/Second submission after Final Rejection)
- ☒ under 37 CFR 1.97(b), or  
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).
- ☐ under 37 CFR 1.97(c) together with either:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, or
- ☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, and
- ☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)
- ☐ under 37 CFR 1.97(i):  
Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.  
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
  - ☒ Copies of the cited references are enclosed.
    - ☐ Copies of issued U.S. patents and published U.S. applications are not required and are not being provided.
  - ☐ Copies of the cited references are enclosed except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
  - ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
  - ☐ The "concise explanation" requirement (non-English references) for reference(s) [ ] under 37 CFR 1.98(a)(3) is satisfied by:
    - ☐ the explanation provided on the attached sheet.
    - ☐ the explanation provided in the Specification.
    - ☐ submission of the enclosed International Search Report.
    - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
    - ☐ the enclosed English language abstract.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_  
Examiner

\_\_\_\_\_  
Date

☐ A copy of each above-cited application, including the current claims, is enclosed, except any application filed on or after June 30, 2003, which has been scanned into the PTO's Image File Wrapper (IFW) system and is available to the examiner.

☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:


☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.

☐ Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.

☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

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Dated: 1/31/05

PTO-1449 REPRODUCED  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  January 30, 2005  (Use several sheets if necessary)	ATTORNEY DOCKET NO. 3336.1020-001		APPLICATION NO. 10/775,766	
	FIRST NAMED INVENTOR Foster D. Hinshaw		FILING DATE February 10, 2004	
	EXAMINER Not assigned		CONFIRMATION NO. 8725	GROUP 2175

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
AR	Hutchinson, D.A., "Parallel Algorithms in External Memory," Ph.D. thesis, Carleton University, Ottawa, Canada, ©1999, 2000, David Alexander Hutchinson, abstract ( <a href="http://www.cs.duke.edu/~hutchins/abstract_thesis.html">http://www.cs.duke.edu/~hutchins/abstract_thesis.html</a> ) and notes (6 pp.)	
AS	Gupta, A. and I.S. Mumick, "Maintenance of Materialized Views: Problems, Techniques, and Applications," <i>Bulletin of the Technical. Committee on Data Engineering</i> , 18(2), IEEE Computer Society, 3-18 (1995).	
AT	Roussopoulos, N. et al., "The ADMS Project: Views "Я" Us," <i>Bulletin of the Technical. Committee on Data Engineering</i> , 18(2), IEEE Computer Society, 19-28 (1995).	
AU	Zhou, G. et al., "Data Integration and Warehousing Using H2O," <i>Bulletin of the Technical. Committee on Data Engineering</i> , 18(2), IEEE Computer Society, 29-39 (1995).	
AV	Hammer, J. et al., "The Stanford Data Warehousing Project," <i>Bulletin of the Technical. Committee on Data Engineering</i> , 18(2), IEEE Computer Society, 40-47 (1995).	
AW	Yang, J., et al., "Algorithms for Materialized View Design in Data Warehousing Environment," <i>VLDB '97, Proceedings of 23rd International Conference on Very Large Databases</i> , August 25-29, 1997, Athens, Greece (pp. 136-145 [1-26]).	
AX	Blakeley, J.A., et al., "Efficiently Updating Materialized Views," <i>ACM SIGMOD Record</i> 15(2):61-71 (June 1986).	
AY	Abiteboul, S, et al., "Incremental Maintenance for Materialized Views over Semistructured Data, <i>VLDB '98, Proceedings of 24th International Conference on Very Large Databases</i> , August 24-27, 1998, New York, NY (pp. 38-49 [1-24]).	
AZ	"Data Warehousing and Very Large Databases (VLDB)," Getting to Know ORACLE8/, 2-22 - 2-26.	
AR2	Stanchev, L., "Semantic Data Control in Distributed Database Environment," Survey Paper for CS748T Distributed Database Management, University of Waterloo, 1-24 (2001).	
AS2	"Survey for Update Propagation in Piazza," <a href="http://www.cs.washington.edu/homes/lunadong/courses/544Project_survey.pdf">http://www.cs.washington.edu/homes/lunadong/courses/544Project_survey.pdf</a> , downloaded 1/12/05 (4 pp.)	
AT2	Robert Ramey Software Development, "The Postman's Sort," originally appeared in C User's Journal, 1992 [retrieved 02/28/2003], Retrieved from the Internet <URL: <a href="http://www.rrsd.com/psort/cuj/cuj.htm">http://www.rrsd.com/psort/cuj/cuj.htm</a> >.	

EXAMINER	DATE CONSIDERED
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(Use several sheets if necessary)

EXAMINER  
Not assigned

CONFIRMATION NO.  
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GROUP  
2175

AU2

“The ACID Model,” [online] [retrieved 02/28/2003], Retrieved from the Internet <URL: <http://databases.about.com/library/weekly/aa120102a.htm>>.

DATE CONSIDERED